

REMARKS

Claims 13-31 were previously pending in the application. By the Amendment, Claim 1 is currently amended, Claims 18, 26 and 31 are canceled without prejudice, new Claim 32 has been added, and Claims 14-17, 19-15 and 27-30 remain unchanged.

Claims 13-18, 23-26 and 28-31 were rejected under 35 USC §102(b) as being anticipated by Chay (US 3,888,790). Claims 13-15, 17-18, 20-26 and 31 were rejected under 35 USC §102(b) as being anticipated by Stiles (US 3,993,597). Claims 19 and 27 were rejected under 35 USC §102(b) as being anticipated by, or under 35 USC §103(a) as being obvious over Chay (US 3,888,790). Claims 16, 19 and 27-30 were rejected under 35 USC §102(b) as being anticipated by, or under 35 USC §103(a) as being obvious over Stiles (US 3,993,597).

Independent Claim 13 has been amended and now recites a cooking, roasting, baking or grilling device wherein a part or portion thereof having has a substrate with a self-cleaning coating thereon which enables remnants of foodstuffs to be removed without mechanical action, comprising: the coating having a structure formed from a plurality of porous particles having pores therein and a binder; said pores in said porous particles in said structure not having a solid or liquid secondary phase therein; wherein said binder is an inorganic binder and is substantially permanently temperature resistant up to about 500 degrees C; and wherein said inorganic binder is an inorganic polymer comprised of an inorganic colloidal solution, formed with at least one of SiO₂, TiO₂, Al₂O₃, ZrO₂, SiC, Si₃N₄, B₂O₃, and mixtures of at least two of an open cell or dense glass, a polymeric phosphate, a silicate, and a clay or water glass.

Claim 13 was amended to include the limitations of Claims 18 and 26. The claim was also amended to change the term “builder” to “binder” to correct the typographical error. In addition, the claim was amended to include the term “inorganic colloidal solution” instead of “soil”. The term “soil” was a typographical error from the original foreign priority document which included the term “sol”, which is an abbreviation for a colloidal solution.

The prior art, particularly Chay and Stiles, does not disclose, among other things, an inorganic binder being “an inorganic polymer comprised of an inorganic colloidal solution, formed with at least one of SiO₂, TiO₂, Al₂O₃, ZrO₂, SiC, Si₃N₄, B₂O₃, and mixtures of at least two of an open cell or dense glass, a polymeric phosphate, a silicate, and a clay or water glass,” as recited in Claim 13.

For these and other reasons, Chay and Stiles, either alone or in combination, do not teach or suggest the subject matter defined by independent Claim 13. Therefore, Claim 13 is allowable. Claims 14-17, 19-25 and 27-30 depend from Claim 13 and are allowable for the same reasons and also because they recite additional patentable subject matter.

New independent Claim 32 recites a cooking device having has a substrate with a self-cleaning coating thereon which enables remnants of foodstuffs to be removed without mechanical action, comprising: the coating having a structure formed from a plurality of porous particles having pores therein and an inorganic binder being substantially temperature resistant up to about 500 degrees C, wherein said inorganic binder includes an inorganic colloidal solution having ZrO_2 particles in liquid phase.

The prior art, particularly Chay and Stiles, does not disclose a cooking device as recited in Claim 32. More specifically, the prior art does not disclose, among other things, the coating having a structure formed from a plurality of porous particles having pores therein and an inorganic binder being substantially temperature resistant up to about 500 degrees C, wherein said inorganic binder includes an inorganic colloidal solution having ZrO_2 particles in liquid phase. Therefore, Applicants respectfully request allowance of independent Claim 32.

CONCLUSION

In view of the above, entry of the present Amendment and allowance of Claims 13-17, 19-25, 27-30 and 32 are respectfully requested. If the Examiner has any questions regarding this amendment, the Examiner is requested to contact the undersigned. If an extension of time for this paper is required, petition for extension is herewith made.

Respectfully submitted,



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